BRUHAT BANGALORE MAHANAGARA PALIKE

MEASUREMENT SHEET

RA 1ST AND FINAL BILL

Name of work: Improvements to Drains and Providing Covering Slabs at Singapura Main Road near Singapura Circle in Ward No. 11 (Kuvempunagara), Vidyaranyapura Sub Division.

Estimated Cost : Rs. 30.00 Lakhs

Head of Account : P-3165

Job Code: 011-17-000007

Name of Agency: Sri. Subbanna, Contractor, # 142, Singapura Village, Vidyaranyapura (P), Bangalore – 560 097.

Work order No: BBMP/EE/BTP/WO/87/2017-18 D: 27.06.2017.

Measurements Recarded on :

Sl. No	Description	No.	L	B1	B2	Av. B	D	Qty	Rate	Amount
1	Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications								Cum	
	For Drain Work									
	Singapura Main Road from Singapura Circle	1	30.00			1.00	1.00	30.00		
		1	30.00			1.00	1.00	30.00		
		1	30.00			1.00	1.00	30.00		
		1	30.00			1.00	1.00	30.00		
		1	30.00			1.00	1.00	30.00		
		1	30.00			1.00	1.00	30.00		
		1	15.00			0.90	0.90	12.15		
	near Varadaraja emple	2	15.00			0.90	0.90	24.30		
		2	15.00			0.90	0.90	24.30		
		2	28.50			0.90	0.90	46.17		
		2	17.50			0.90	0.90	28.35		
	Culvert @ Hosabalunagara near Cross	1	7.65			1.50	1.00	11.48		
		1	7.00			0.90	0.90	5.67		
							Total Qty =	**332.42**		
							Qty Limited to=	**331.30**	191.83	**63553.00**
2	Providing and laying in position plain cement concrete of **mix 1:4:8 with cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates @ 0.57 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation and plinth including cost of all materials, labour, HOM of machinery, curing complete as per specifications.								Cum	
	Singapura Main Road from Singapura Circle	1	30.00			1.00	0.15	4.50		
		1	30.00			1.00	0.15	4.50		
		1	30.00			1.00	0.15	4.50		
		1	30.00			1.00	0.15	4.50		
		1	30.00			1.00	0.15	4.50		

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Sl. No	Description	No.	L	B1	B2	Av. B	D	Qty	Rate	Amount
		1	30.00			1.00	0.15	4.50		
		1	15.00			0.90	0.15	2.03		
	near Varadaraja emple	2	15.00			0.90	0.15	4.05		
		2	15.00			0.90	0.15	4.05		
		2	28.50			0.90	0.15	7.70		
		2	17.50			0.90	0.15	4.73		
	Culvert @ Hosabalunagara near Cross	1	7.65			1.50	0.15	1.72		
		1	7.00			0.90	0.15	0.95		
							Total Qty =	52.21		
							Qty Limited to=	48.29	5045.25	243635.00
3	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC)for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 (1:1.5:3) for raft foundation, column footing, main and secondary beams etc complete as per specification								Cum	
	For Bottom									
	Singapura Main Road from Singapura Circle	1	30.00			0.90	0.15	4.05		
		1	30.00			0.90	0.15	4.05		
		1	30.00			0.90	0.15	4.05		
		1	30.00			0.90	0.15	4.05		
		1	30.00			0.90	0.15	4.05		
		1	30.00			0.90	0.15	4.05		
		1	15.00			0.90	0.15	2.03		
	near Varadaraja emple	2	15.00			0.90	0.15	4.05		
		2	15.00			0.90	0.15	4.05		
		2	28.50			0.90	0.15	7.70		
		2	17.50			0.90	0.15	4.73		
	Culvert @ Hosabalunagara near Cross	1	7.65			1.50	0.15	1.72		
		1	7.00			0.90	0.15	0.95		
	Drain Side Wall									
	Singapura Main Road from Singapura Circle	2	30.00			0.15	0.75	6.75		
		2	30.00			0.15	0.75	6.75		
		2	30.00			0.15	0.75	6.75		
		2	30.00			0.15	0.75	6.75		
		2	30.00			0.15	0.75	6.75		
		2	30.00			0.15	0.75	6.75		
		2	15.00			0.15	0.75	3.38		
	near Varadaraja emple	4	15.00			0.15	0.75	6.75		
		4	15.00			0.15	0.75	6.75		
		4	28.50			0.15	0.75	12.83		
		4	17.50			0.15	0.75	7.88		
	Culvert @ Hosabalunagara near Cross	2	7.65			1.50	0.90	20.66		
		2	7.00			0.15	0.75	1.58		
							Total Qty =	149.82		
							Qty Limited to=	124.24	6300.38	782759.00

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Sl. No	Description	No.	L	B1	B2	Av. B	D	Qty	Rate	Amount
4	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface such as walls** at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications.								Sqm	
	Drain Side Wall									
	Singapura Main Road from Singapura Circle	4	30.00				0.75	90.00		
		4	30.00				0.75	90.00		
		4	30.00				0.75	90.00		
		4	30.00				0.75	90.00		
		4	30.00				0.75	90.00		
		4	30.00				0.75	90.00		
		4	15.00				0.75	45.00		
	near Varadaraja emple	2x4	15.00				0.75	90.00		
		2x4	15.00				0.75	90.00		
		2x4	28.50				0.75	171.00		
		2x4	17.50				0.75	105.00		
	Culvert @ Hosabalunagara near Cross	4	7.65				0.90	27.54		
		4	7.00				0.75	21.00		
							Total Qty =	**1089.54**		
							Qty Limited to=	**924.36**	305.19	**282105.00**
5	Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications								Tonne	
	Covering Slab									
	12 mm U Shape Rod		1773	2.50	4432.50		0.89	3944.93		
	10 mm Rod		20	195.00	3900.00		0.62	2418.00		
	12 mm U Shape Rod		532	2.50	1330.00		0.89	1183.70		
	10 mm Rod		20	58.50	1170.00		0.62	725.40		
	10 mm U Shape Rod		159	2.50	397.50		0.62	246.45		
	8 mm Rod		20	17.50	350.00		0.39	136.50		
	16 mm U Shape Rod		125	2.80	350.00		1.58	553.00		
	12 mm Rod		25	7.50	187.50		0.89	166.88		
	16 mm U Shape Rod		117	2.80	327.60		1.58	517.61		
	12 mm Rod		25	7.00	175.00		0.89	155.75		
								10048.21		
							Total Qty =	**10.05**		
							Qty Limited to=	**9.71**	59031.27	**573194.00**
6	Providing precast slab of 250mm thick including cost of all materials, labour, curing,transportation,loading unloading, etc.,complete as per the direction of engineer in charge- Data rate								Sqm	
	Culvert @ Hosabalunagara near Cross	1	7.65				1.50	11.48		
	Culvert @ Singapura Road	1	7.50				1.55	11.63		
		1	6.95				1.55	10.77		
	Culvert @ Varadarajanagar Cross Road	1	7.00				1.50	10.50		
							Total Qty =	**44.37**		
							Qty Limited to=	**41.40**	5099.38	**211114.00**

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Sl. No	Description	No.	L	B1	B2	Av. B	D	Qty	Rate	Amount
7	Providing precast slab of 100mm thick including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge-Data rate							Sqm		
	Singapura Main Road from Singapura Circle	1	30.00			1.20		36.00		
		1	30.00			1.20		36.00		
		1	30.00			1.20		36.00		
		1	30.00			1.20		36.00		
		1	30.00			1.20		36.00		
		1	30.00			1.20		36.00		
		1	15.00			1.20		18.00		
	near Varadaraja Temple	2	15.00			1.20		36.00		
		2	15.00			1.20		36.00		
		2	28.50			1.20		68.40		
		2	17.50			1.20		42.00		
		2	7.00			1.20		16.80		
						Total Qty =		**433.20**		
						Total Qty =		**330.00**	1751.20	**577896.00**
8	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complet							Sqm		
	Singapura Main Road from Singapura Circle	1	50.00					111.11		
			0.45							
		1	50.00					111.11		
			0.45							
		1	50.00					111.11		
			0.45							
		1	45.00					100.00		
			0.45							
		1	12.00					26.67		
			0.45							
	near Varadaraja Temple	2	15.00					66.67		
			0.45							
		2	28.50					126.67		
			0.45							
							Total Qty =	**653.33**		
							Total Qty =	**611.00**	319.16	**195007.00**
9	Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specification							Sqm		
	Singapura Main Road from Singapura Circle	1	50.00			0.45		22.50		
		1	50.00			0.45		22.50		
		1	50.00			0.45		22.50		
		1	45.00			0.45		20.25		
		1	12.00			0.45		5.40		
	near Varadaraja Temple	2	15.00			0.45		13.50		
		2	28.50			0.45		25.65		

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Sl. No	Description	No.	L	B1	B2	Av. B	D	Qty	Rate	Amount
						Total Qty =		132.30		
						Total Qty =		123.75	26.87	3325.00
10	Providing and applying spray painting in two coats (excluding priming coat) over concrete / masonry / asbestos cement sheet / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications								Sqm	
		Qty Vide Item No. 09						123.75		
						Total Qty =		123.75	67.70	8378.00
									Total	2940966.00

Rupees Twenty Nine Lakh(s) Forty Thousand Nine Hundred Sixty Six Only

Assistant Engineer
Ward No. 11

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Vidyaranyapura Sub Division

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